

FIG._1A

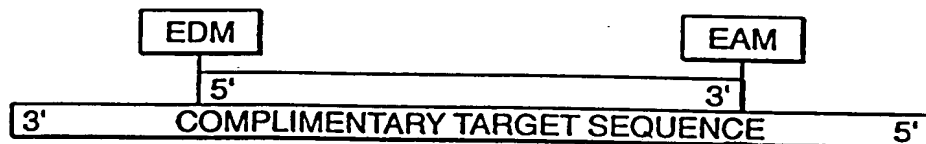


FIG._1B

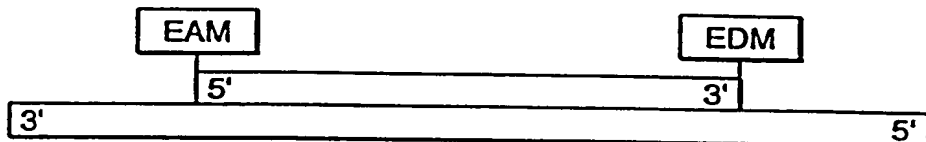


FIG._1C

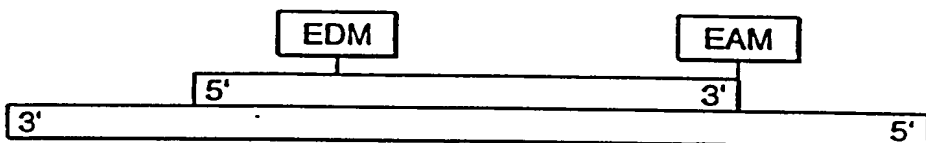


FIG._1D

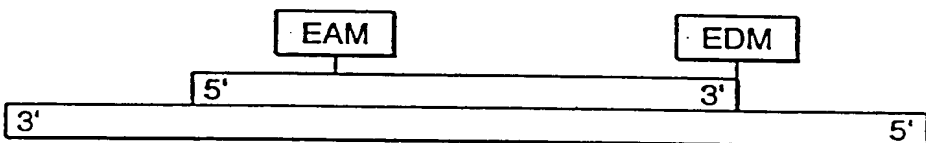


FIG._1E

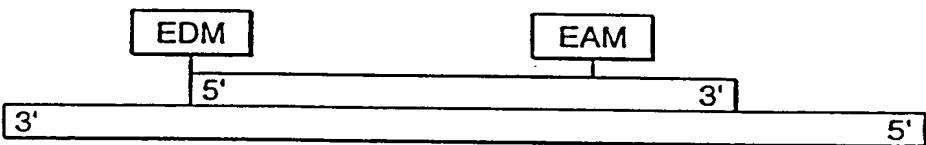


FIG._1F

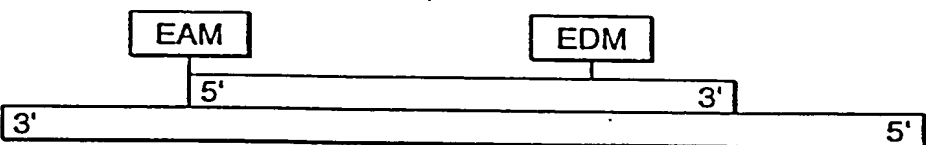


FIG._1G

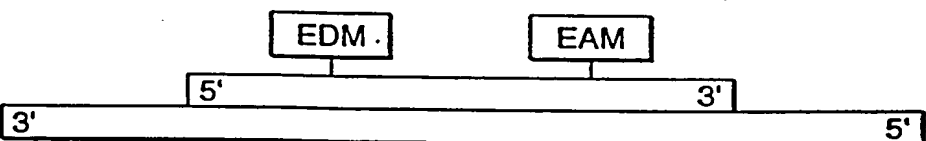
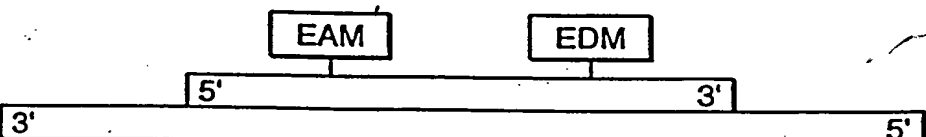


FIG._1H



14

FIG..2A-1

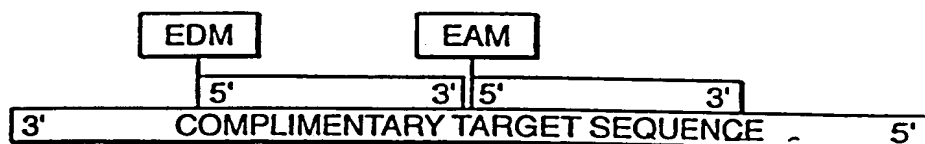


FIG..2A-2

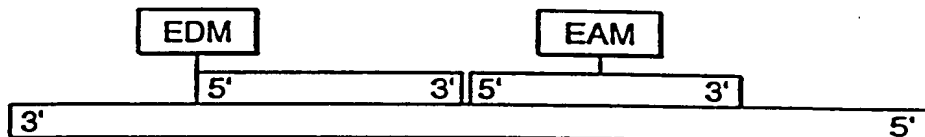


FIG. 2A-3

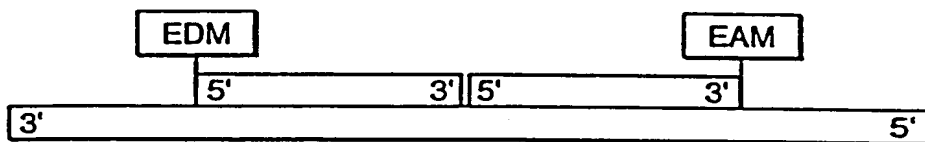


FIG.-2A-4

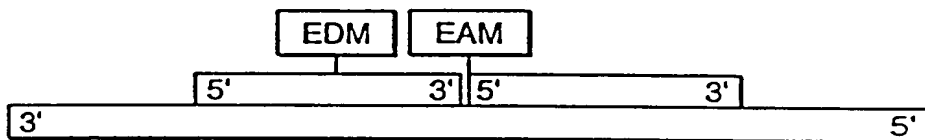


FIG. 2A-5

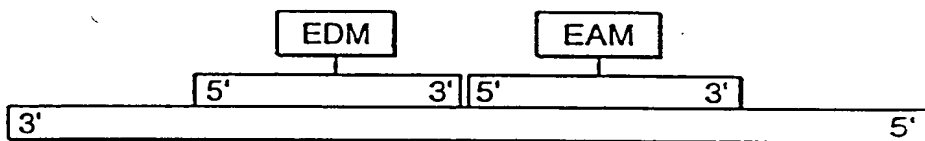


FIG. 2A-6

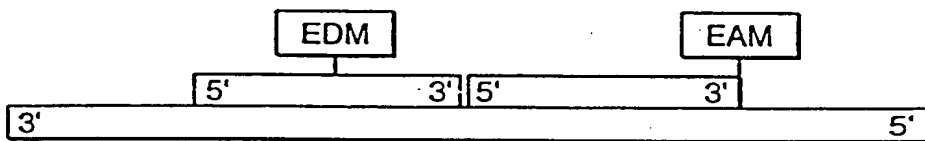


FIG..2A-7

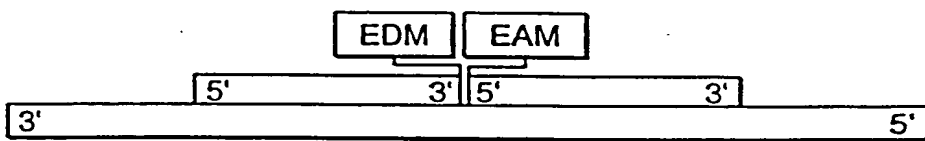


FIG.-2A-8

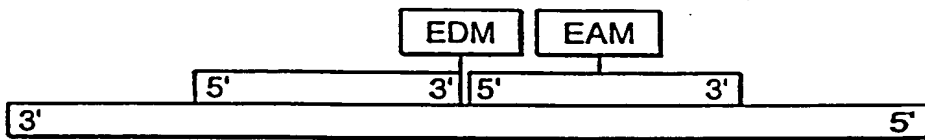


FIG. 2A-9

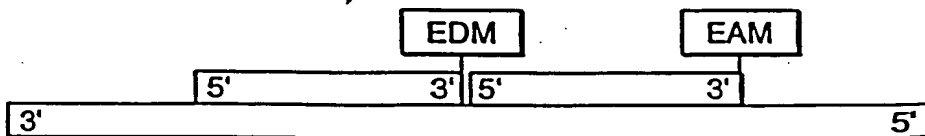


FIG..2B-1

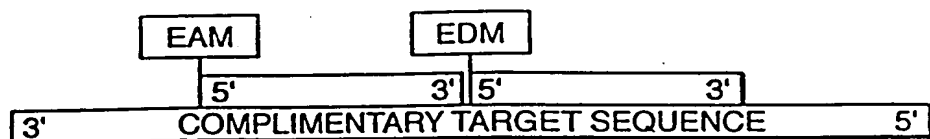


FIG..2B-2

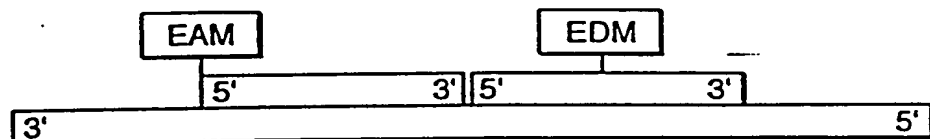


FIG..2B-3

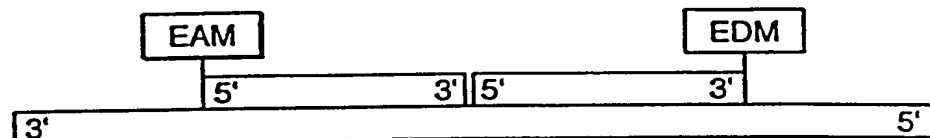


FIG..2B-4

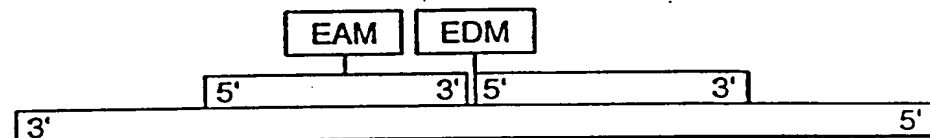


FIG..2B-5

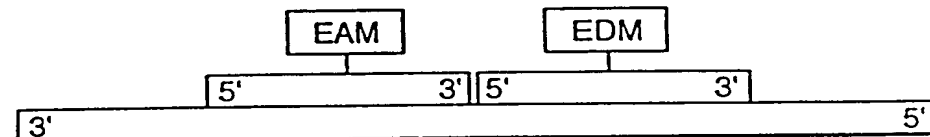


FIG..2B-6

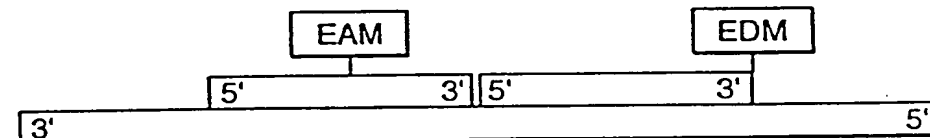


FIG..2B-7

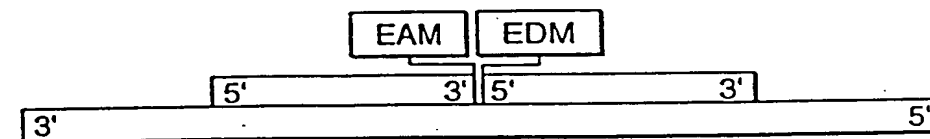


FIG..2B-8

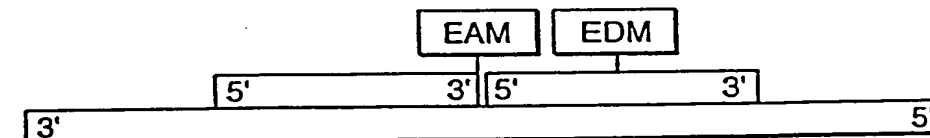


FIG..2B-9

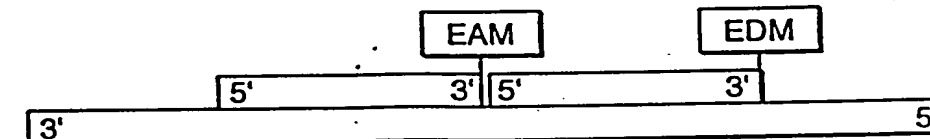
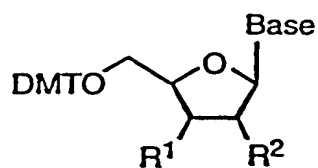


FIG..2

FIG..2A

FIG..2B



(I) $R^1 = H$ $R^2 = NH_2$

(II) $R^1 = NH_2$ $R^2 = H$

(III) $R^1 = NH_2$ $R^2 = OH$

(IV) $R^1 = OH$ $R^2 = NH_2$

(Base) Adenine, guanine, cytosine, thymidine, uridine.

FIG._3

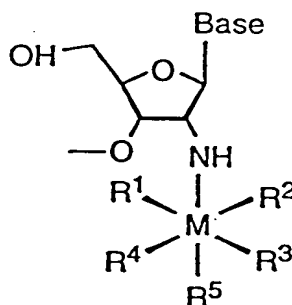


FIG._4A

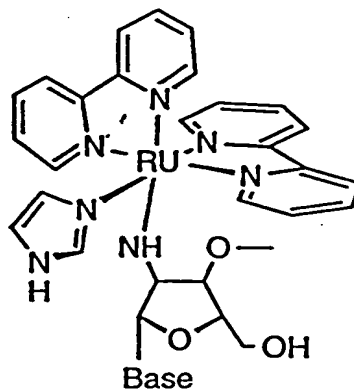


FIG._4B

Synthetic Scheme

*2'-amino-2'-deoxyuridine derivatized
to control pore glass (CPG)*

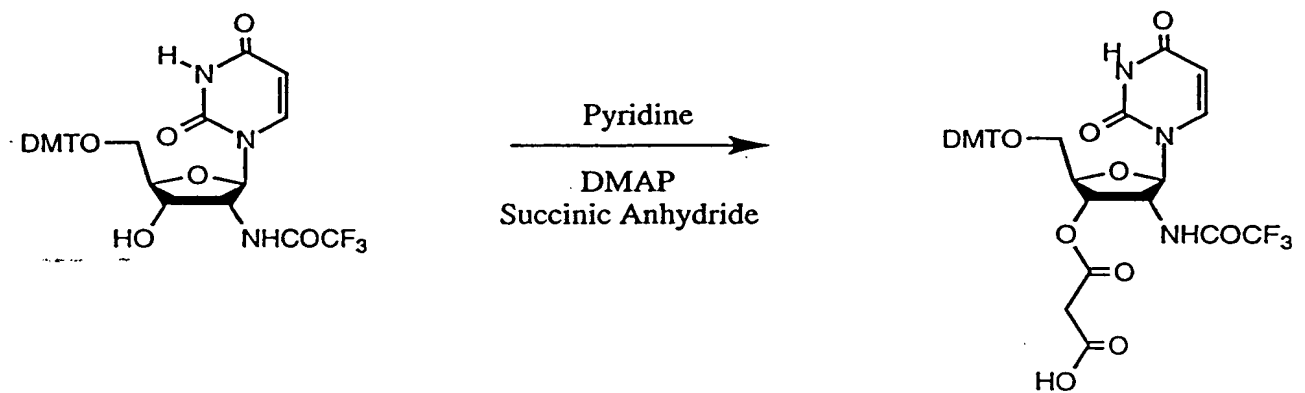
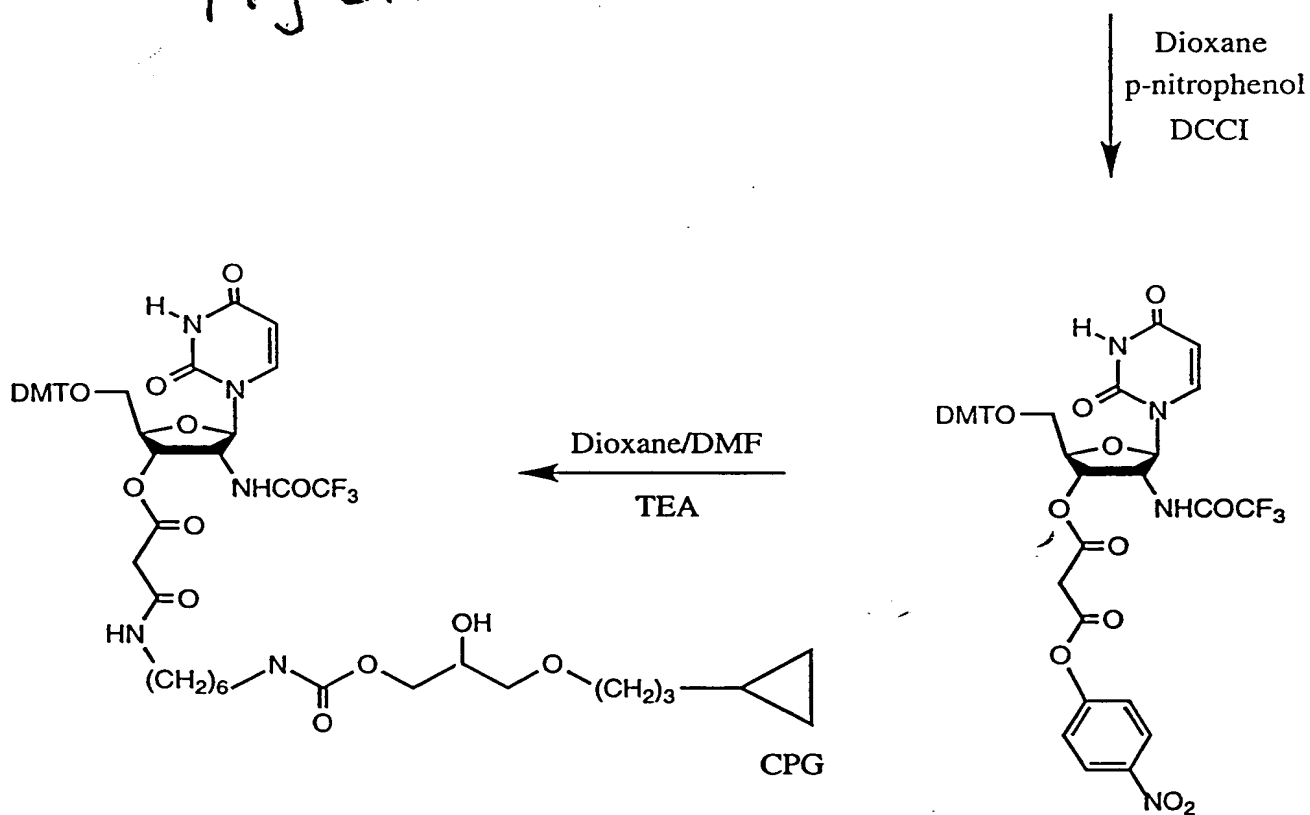


Fig 6A



05
Synthesis of
Bis-2'-amino-2'-deoxyuridine

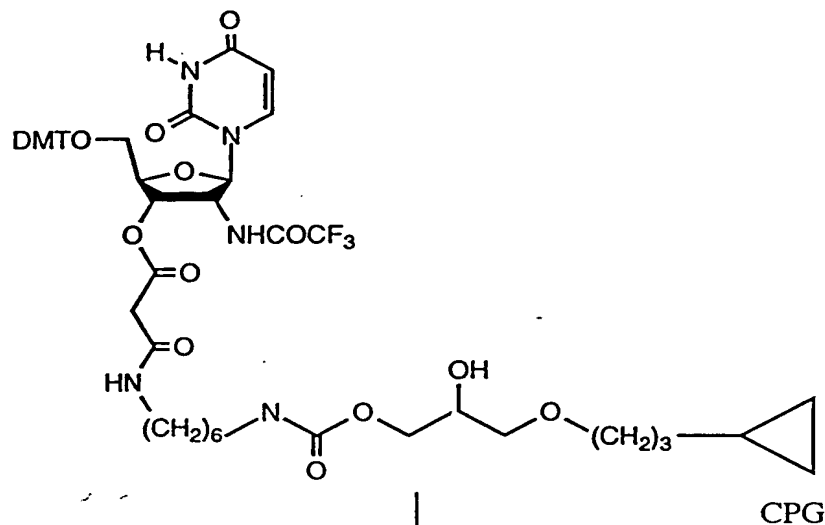
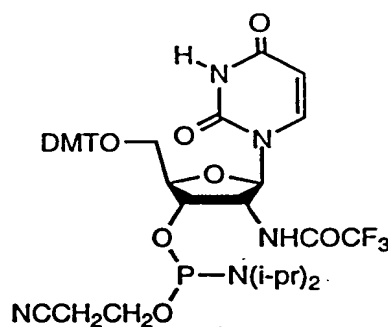
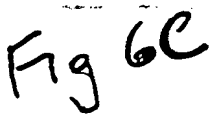


Fig 6B

3' UCTCCTACAC-
H₂N

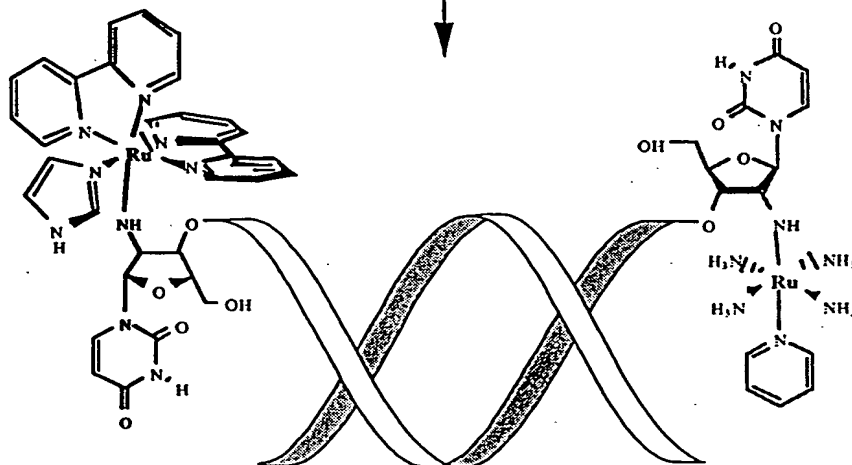
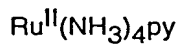


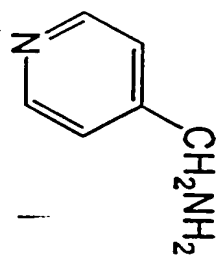
3' 5'
H₂N UCTCCTACACU DMT NH₂



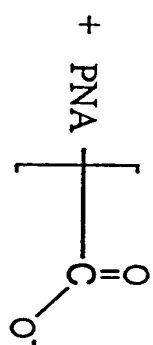
3. - DMT

4. + Complement



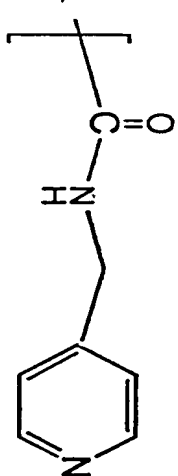


+



Condense

PNA



Metal + ligands

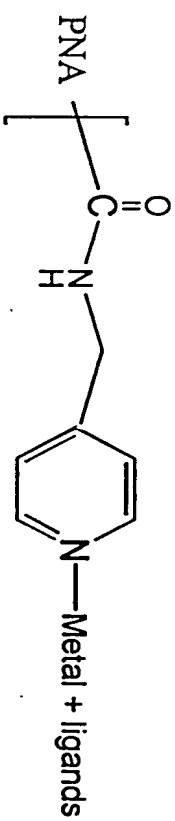


Fig 7

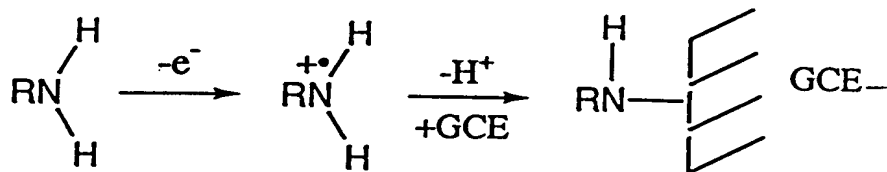


Figure 8A

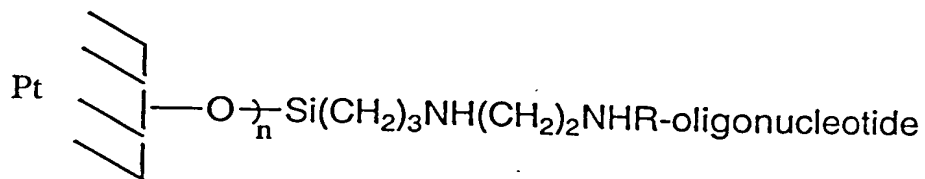


Figure 8B